



Mathematics Long-Term Plan

Parish Church of England Primary School

	<u>Cycle 1</u> [7 weeks]	<u>Cycle 2</u> [7 weeks]	<u>Cycle 3</u> [7 weeks]	<u>Cycle 4</u> [7 weeks]	<u>Cycle 5</u> [7 weeks]	
<u>Nursery</u>	<u>Colours</u> (2 weeks) <u>Matching</u> (2 weeks) <u>Sorting</u> (2 weeks) <u>Number 1</u> (1 week)	<u>Numerals 2 - counting and subitising</u> (2 weeks) <u>Patterns</u> (2 weeks) <u>Numerals 3 - Counting and subitising</u> (2 weeks) <u>Numerals 4 - Counting and subitising</u> (1 week)	<u>Numerals 4 - Composition</u> (1 week) <u>Numerals 5- Counting and Subitising</u> (1 week) <u>Numerals 5 - Composition</u> (1 week) <u>Consolidation Numbers 1-5</u> (1 week) <u>Numerals 6</u> (1 week) <u>Height and Length</u> (1 week) <u>Mass</u> (1 week)	<u>Capacity</u> (1 week) <u>Sequencing</u> (1 week) <u>Positional Language</u> (1 week) <u>More than/Fewer</u> (1 week) <u>2D Shape</u> (1 week) <u>3D Shape</u> (1 week)	<u>Number Composition</u> (1 week) <u>What comes after?</u> (1 week) <u>What comes before?</u> (1 week) <u>Numbers to 5</u> (1 week) <u>Consolidation</u> (2 weeks)	
<u>Reception</u>	<u>Subitising:</u> <ul style="list-style-type: none">Subitise within 3Practise using their fingers to represent quantities which they can subitise <u>Cardinality, Ordinality and Counting:</u> <ul style="list-style-type: none">Relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire sethave a wide range of opportunities to develop their knowledge of the counting sequence, including through rhyme and songhave a wide range of opportunities to develop 1:1 correspondence, including by coordinating movement and counting <u>Compositions:</u> <ul style="list-style-type: none">Compose their own collections within 4. <u>Comparisons:</u> <ul style="list-style-type: none">Use the language of comparisons, including 'more than' and 'fewer than'Compare sets 'just by looking'	<u>Subitising:</u> <ul style="list-style-type: none">Subitise within 5, perceptually and conceptually, depending on the arrangements <u>Cardinality, Ordinality and Counting:</u> <ul style="list-style-type: none">Continue to develop their counting skillsExplore the cardinality of 5, linking this to dice patterns and 5 fingers on 1 hand<ul style="list-style-type: none">Begin to count beyond 5Begin to recognise numerals, relating these to quantities they can subitise and count <u>Compositions:</u> <ul style="list-style-type: none">Explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot <u>Comparisons:</u> <ul style="list-style-type: none">Compare sets by matching, seeing that when every object in a set can be matched to one in the other set, they contain the same number and are equal amounts	<u>Subitising:</u> <ul style="list-style-type: none">Increase confidence in subitising by continuing to explore patterns within 5, including structured and random arrangementsExplore a range of patterns made by some numbers greater than 5, including structured patterns in which 5 is a clear partexperience patterns which show a small group and '1 more' <u>Cardinality, Ordinality and Counting:</u> <ul style="list-style-type: none">Continue to develop verbal counting to 20 and beyondContinue to link counting to cardinality, including using their fingers to represent quantities between 5 and 10Order numbers, linking cardinal and ordinal representations of number <u>Compositions:</u> <ul style="list-style-type: none">Explore the composition of 6, linking this to familiar patterns, including symmetrical patterns- begin to see that numbers within 10 can be composed of '5 and a bit' <u>Comparisons:</u> <ul style="list-style-type: none">Continue to compare sets using the language of comparison, and play games	<u>Subitising:</u> <ul style="list-style-type: none">Explore symmetrical patterns, in which each side is a familiar pattern, linking this to 'doubles' <u>Cardinality, Ordinality and Counting:</u> <ul style="list-style-type: none">Continue to consolidate their understanding of cardinality, working with larger numbers within 10 - become more familiar with the counting pattern beyond 20. <u>Compositions:</u> <ul style="list-style-type: none">Explore the composition of odd and even numbers, looking at the 'shape' of these numbersBegin to link even numbers to doublesBegin to explore the composition of numbers within 10. <u>Comparisons:</u> <ul style="list-style-type: none">Compare numbers, reasoning about which is more, using both an understanding of the 'howness' of a number, and its position in the number system	<u>Subitising:</u> <ul style="list-style-type: none">Continue to practise increasingly familiar subitising arrangements, including those which expose '1 more' or 'doubles' patternsUse subitising skills to enable them to identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number <u>Cardinality, Ordinality and Counting:</u> <ul style="list-style-type: none">Continue to develop verbal counting to 20 and beyond, including counting from different starting numbersContinue to develop confidence and accuracy in both verbal and object counting. <u>Compositions:</u> <ul style="list-style-type: none">Explore the composition of 10. <u>Comparisons:</u> <ul style="list-style-type: none">Order sets of objects, linking this to their understanding of the ordinal number system	In this half-term, the children will consolidate their understanding of concepts previously taught through working in a variety of contexts and with different numbers.

			which involve comparing sets			
	Comparing and ordering	2D Shapes	Measuring lengths and Height	2D Shapes	Mass	Volume and capacity
	Time	Positional language	Capacity	3D Shapes	Money	
<u>Year 1</u>	Maths ELG Retrieval (1 week).	Chapter 4 – Subtraction Within 10. Number of Scheme Lessons – 6 (2 weeks).	Chapter 7 – Addition and Subtraction Within 20 (Part 2) Number of Scheme Lessons – 7 (1 week).	Chapter 12 – Addition and Subtraction Word Prob (Part 2). Number of Scheme Lessons – 6 (1 week).	Chapter 16 – Time (Part 2). Number of Scheme Lessons – 6 (1 week).	
	Chapter 1 – Counting to 10. Number of Scheme Lessons – 7 (3 weeks).	Chapter 5 – Positions Number of Scheme Lessons – 3 (1 week).	Chapter 8 – Shapes and Patterns. Number of Scheme Lessons – 4 (2 weeks).	Chapter 13 – Division Number of Scheme Lessons – 2 (1 week).	Chapter 17 – Money Number of Scheme Lessons – 2 (1 week).	
	Chapter 2 – Number Bonds. Number of Scheme Lessons – 2 (1 week).	Chapter 6 – Numbers to 20. Number of Scheme Lessons – 5 (2 weeks).	Chapter 9 – Length and Height Number of Scheme Lessons – 4 (1 week).	Chapter 14 – Fractions Number of Scheme Lessons – 3 (2 weeks).	Chapter 18 – Volume and Capacity. Number of Scheme Lessons – 3 (1 week).	
	Chapter 3 – Addition Within 10. Number of Scheme Lessons – 5 (2 weeks).	Chapter 7 – Addition and Subtraction Within 20 (Part 1) Number of Scheme Lessons – 7 (2 weeks).	Chapter 10 – Numbers to 40. Number of Scheme Lessons – 6 (2 weeks).	Chapter 15: Numbers to 100 Number of Scheme Lessons – 4 (2 week).	Chapter 19 – Mass Number of Scheme Lessons – 3 (2 weeks).	
			Chapter 11 – Addition and Subtraction Word Prob (Part 1). Number of Scheme Lessons – 6 (1 week).	Chapter 16 – Time (Part 1). Number of Scheme Lessons – 6 (1 week).	Chapter 20 – Space Number of Scheme Lessons – 3 (1 week).	
	Start with the oneness of the 1 Times Table	2 Times Tables	5 Times Tables	10 Times Table	2, 5 and 10 Times Table	
<u>Year 2</u>	Chapter 1 – Numbers to 100 Number of Scheme Lessons – 6 (2 weeks).	Chapter 3 – Multiplication 2s, 5s and 10s Part 2. Number of Scheme Lessons – 10 (2 weeks).	Chapter 5 – Length Number of Scheme Lessons – 8 (2 weeks).	Chapter 13 – Fractions Part 2 Number of Scheme Lessons – 13 (1 week).	Chapter 12 – 3D Shapes Number of Scheme Lessons – 6 (2 weeks).	
	Chapter 2 – Addition and Subtraction Number of Scheme Lessons – 14 (4 weeks).	Chapter 4 – Multiplication/Division of 2,5,10 Number of Scheme Lessons – 8 (3 weeks).	Chapter 6 – Mass Number of Scheme Lessons – 7 (2 weeks).	Chapter 10 – Money Number of Scheme Lessons – 10 (2 weeks). 1 week).	Chapter 14 – Time Number of Scheme Lessons – 9 (3 weeks).	
	Chapter 3 – Multiplication 2s, 5s and 10s Part 1. Number of Scheme Lessons – 10 (1 week).	Chapter 11 – 2D Shapes Number of Scheme Lessons – 10 (2 weeks).	Chapter 13 – Fractions Part 1 Number of Scheme Lessons – 13 (3 weeks).	Chapter 7 – Temperature Number of Scheme Lessons – 2 (1 week).	Chapter 15 – Volume Number of Scheme Lessons – 7 (2 weeks).	
				Chapter 8 – Pictograms Number of Scheme Lessons – 5 (1 week).		
				Chapter 9 – Word Problems Number of Scheme Lessons – 4 (1 week).		
	2 Times Tables	5 Times Tables	10 Times Table	2, 5 and 10 Times Table	3 Times Table	
<u>Year 3</u>	Chapter 1 – Numbers to 1000 Number of Scheme Lessons – 8 (2 weeks).	Chapter 3 – Multiplication and Division Number of Scheme Lessons – 16 (4 weeks).	Chapter 11 – Fractions Number of Scheme Lessons – 15 (4 weeks).	Chapter 7 – Volume Number of Scheme Lessons – 10 (2 weeks).	Chapter 12 – Angles Part 2 Number of Scheme Lessons – 6 (1 week)	
	Chapter 2 – Addition and Subtraction Number of Scheme Lessons – 22 (5 weeks).	Chapter 4 – Further Multiplication Number of Scheme Lessons – 12 (3 weeks).	Chapter 5 – Length Number of Scheme Lessons – 11 (2 weeks).	Chapter 8 – Money Number of Scheme Lessons – 10 (3 weeks).	Chapter 13 – Lines and Shapes Number of Scheme Lessons – 5 (1 week).	
			Chapter 6 – Mass Number of Scheme Lessons – 7 (1 week).	Chapter 10 – Picture Graphs and Bar Graphs Number of Scheme Lessons – 4 (1 week).	Chapter 14 – Perimeter of Figures Number of Scheme Lessons – 9 (2 weeks).	

Times Table Coverage (Times Table Strategy)				Chapter 12 -Angles Part 1 Number of Scheme Lessons - 6 (1 weeks)	Chapter 9 - Time Number of Scheme Lessons - 17 (3 weeks).
	Revise 2, 5 and 10 Times Tables	4 Times Tables (including links to the 2 times table).	4 and 8 Times Table	8 Times table	Revise 4 and 8 Times Tables
<u>Year 4</u> Times Table Coverage (Times Table Strategy)	Chapter 1 - Numbers to 10,000 Number of Scheme Lessons - 13 (4 weeks).	Chapter 3 - Multiplication and Division Number of Scheme Lessons - 19 (4 weeks).	Chapter 4 - Further Multiplication Part 2 Number of Scheme Lessons - 18 (1 week).	Chapter 8 - Decimals Part 2 Number of Scheme Lessons - 9 (1 week).	Chapter 11 - Area and Perimeter of Figures Number of Scheme Lessons - 7 (1 week).
	Chapter 2 - Addition and Subtraction Within 10,000 Number of Scheme Lessons - 16 (3 weeks).	Chapter 4 - Further Multiplication Part 1 Number of Scheme Lessons - 18 (3 weeks).	Chapter 5 - Graphs Number of Scheme Lessons - 5 (1 week).	Chapter 7 - Time Number of Scheme Lessons - 6 (2 weeks).	Chapter 12 - Geometry Number of Scheme Lessons - 9 (3 weeks).
			Chapter 6 - Fractions Number of Scheme Lessons - 13 (3 weeks).	Chapter 9 - Money Number of Scheme Lessons - 8 (2 weeks).	Chapter 13 - Position and Movement Number of Scheme Lessons - 5 (2 weeks).
			Chapter 8 - Decimals Part 1 Number of Scheme Lessons - 9 (2 weeks).	Chapter 10 - Length, Mass and Volume Number of Scheme Lessons - 8 (2 weeks).	Chapter 14 - Romans Numerals Number of Scheme Lessons - 2 (1 week).
	Revise 2, 5, 10, 4 and 8 Times Table	3 and 6 Times Tables	3, 6 and 9 Times Tables	7, 11 and 12 Times Tables	Revisit up to 12 x 12
<u>Year 5</u> Times Table Coverage (Times Table Strategy)	Chapter 1 - Numbers to 1,000,000 Number of Scheme Lessons - 12 (4 weeks).	Chapter 3 - Whole Numbers: Multiplication and Division Number of Scheme Lessons - 19 (6 weeks).	Chapter 5 - Graphs Number of Scheme Lessons - 7 (2 weeks)	Chapter 7 - Decimals Number of Scheme Lessons - 15 (3.5 weeks)	Chapter 10 - Position and Movement Number of Scheme Lessons - 5 (1 week)
	Chapter 2 - Whole Numbers: Addition and Subtraction Number of Scheme Lessons - 10 (3 weeks).	Chapter 4 - Whole Numbers: Word Problems Number of Scheme Lessons - 4 (1 week)	Chapter 6 - Fractions Number of Scheme Lessons - 18 (5 weeks)	Chapter 8 - Percentages Number of Scheme Lessons - 3 (1.5 week)	Chapter 11 - Measurements Number of Scheme Lessons - 9 (3 weeks)
	Chapter 14 - Roman Numerals Number of Scheme Lessons - 2 (1 week)			Chapter 9 - Geometry Number of Scheme Lessons - 12 (2 weeks)	Chapter 12 -Area and Perimeter Number of Scheme Lessons - 5 (2 weeks)
					Chapter 13 -Volume Number of Scheme Lessons - 5 (1 weeks)
	3, 6 and 9 Times Tables	7, 11 and 12 Times Tables	Revisit up to 12 x 12	All times tables (supported by Question Level Analysis)	All times tables (supported by Question Level Analysis)
<u>Year 6</u> Times Table Coverage (Times Table Strategy)	Chapter 1 - Numbers to 10,000,000 Number of Scheme Lessons - 5 (2 weeks).	Chapter 3 -Fractions Part 2 Number of Scheme Lessons - 15 (3 weeks).	Chapter 6 - Word Problems Number of Scheme Lessons - 6 (1.5 weeks).	Chapter 10 - Area and Perimeter Number of Scheme Lessons - 4 (1 week).	Chapter 13 - Position and Movement Number of Scheme Lessons - 10 (2 weeks).
	Chapter 2 - Four Operations Number of Scheme Lessons - 22 (4 weeks)	Chapter 4 - Decimals Number of Scheme Lessons - 14 (3 weeks)	Chapter 7 - Percentages Number of Scheme Lessons - 4 (1.5 weeks)	Chapter 11 -Volume Number of Scheme Lessons - 5 (1 week).	Chapter 14 -Graphs and Averages. Number of Scheme Lessons - 11 (3 weeks).
	Chapter 15- Negative Numbers Number of Scheme Lessons - 2 (1 week).	Chapter 5 -Measure Number of Scheme Lessons - 7 (1.5 weeks).	Chapter 8 - Ratio Number of Scheme Lessons - 10 (2 weeks)	Chapter 12 - Geometry. Number of Scheme Lessons - 12 (4 weeks).	
	Chapter 3 -Fractions Part 1 Number of Scheme Lessons - 15 (1 weeks).		Chapter 9 - Algebra Number of Scheme Lessons - 10 (2 weeks).		
	All times tables (supported by Question Level Analysis)	All times tables (supported by Question Level Analysis)	All times tables (supported by Question Level Analysis)	All times tables (supported by Question Level Analysis)	All times tables (supported by Question Level Analysis)

Key Curriculum Features - Number of Scheme Stated Lessons (In addition to White Space):

Year	Number of Lessons — A	Number of Lessons — B	Total Number of Lessons	Number of White Space Days	% of Yearly White Space
1	43	43	86	104	55%
2	60	59	119	71	37%
3	83	65	148	42	22%
4	90	48	138	52	27%
5	70	56	126	64	34%
6	69	68	137	53	28%